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US

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24

(54) Title: TRANSGENIC MAMMALS HAVING HUMAN IG LOCI INCLUDING PLURAL V_H AND V_K REGIONS AND ANTIBODIES PRODUCED THEREFROM

(57) Abstract

(30) Priority Data:

08/759,620

The present invention relates to transgenic non-human animals that are engineered to contain human immunoglobulin gene loci. In particular, animals in accordance with the invention possess human Ig loci that include plural variable (V_H and V_K) gene regions. Advantageously, the inclusion of plural variable region genes enhances the specificity and diversity of human antibodies produced by the animal. Further, the inclusion of such regions enhances and reconstitutes B-cell development to the animals, such that the animals possess abundant mature B-cells secreting extremely high affinity antibodies.

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INTERNALIONAL SEARCH REPORT

Internal at Application No PCT/US 97/23091

A. CLASSII IPC 6	FICATION OF SUBJECT MATTER AUTK67/027 CO7K16/00 CO7K1 C12N15/90	16/24 C07K16/28	//C12N15/85,
B. FIELDS	SEARCHED cumentation searched (classification system followed by class A01K C07K C12N		
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Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-240, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mateo Rosel	I, A.M.

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A1

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AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, (81) 指定国 CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO特許 (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), ユーラシ ア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧州特許 (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI特許 (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

添付公開書類

国際調査報告書

22

PLURIPOTENT CELLS HAVING DISRUPTED INTRINSIC GENES (54) Title:

内因性遺伝子が破壊されている分化多能性保持細胞 (54)発明の名称

(57) Abstract

A process for constructing a chimeric non-human animal characterized by preparing microcells containing one or more foreign chromosomes or fragments thereof, and transferring the one or more foreign chromosomes or fragments thereof into pluripotent cells through fusion with the microcells; chimeric non-human animals which can be constructed by the above process and offspring thereof; tissues and cells originating in the above animals; methods for using the individuals, tissues and cells of the animals; pluripotent cells containing one or more foreign chromosomes or fragments thereof, a process for constructing these cells, and the use of these cells; pluripotent cells in which at least two intrinsic genes have been disrupted; a process for constructing the above cells by homologous recombination; etc.

INTERNATIONAL SEARCH REPORT

International application No.
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ACLASSIFICATION OF SUBJECT MATTER Int.Cl ⁶ A01K67/027							
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C. DOCU	MENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appr		Relevant to claim No.				
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Date of the	Date of the actual completion of the international search May 21, 1998 (21. 05. 98) Date of mailing of the international search June 2, 1998 (02. 06. 98)						
Name and mailing address of the ISA/ Japanese Patent Office Authorized officer							
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INTERNATIONAL SEARCH REPORT

International application No.
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ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Α.	発明の属	する分野の分類(国際特許分類(IPC))				
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